

**Amendments to the Specification**

- 1) Please insert the following subtitle at page 1, below the title:

**Background**

- 2) Please insert the following subtitle at page 2, line 17:

**Summary**

- 3) Please delete the text at page 3, lines 13 - 19.

- 4) Please insert the following subtitle and text at page 3, line 20:

**Brief Description of the Drawings**

For a further understanding of the nature and objects for the present invention, reference should be made to the following detailed description, taken in conjunction with the accompanying drawings, in which like elements are given the same or analogous reference numbers and wherein:

- Figure 1 illustrates a schematic representation of a typical Fischer-Tropsch process type GtL unit;
- Figure 2 illustrates another schematic representation of a typical Fischer-Tropsch process type GtL unit;
- Figure 3 illustrates a schematic representation of one embodiment of the method according to the current invention; and
- Figure 4 illustrates a schematic representation of a second embodiment of the method according to the current invention.

- 5) Please insert the following subtitle after the above-inserted paragraphs:

**Description of Preferred Embodiments**

- 6) Please replace the paragraph found at page 10, line 9 with the following text:

~~Figure 3 shows~~ Figures 3 and 4 show the method according to the invention. Unlike the methods of the prior art shown in Figures 1 and 2, the waste gas (5) comprising a mixture of H<sub>2</sub>, CO, CO<sub>2</sub> and light hydrocarbons with a maximum of 6 carbon atoms, is treated at least partially (10) by a separation method (F) yielding:

- a gas (11) mainly comprising hydrocarbons with at least 2 carbon atoms, which can partially (11a) be recycled to synthesis gas generation (A), or partially (11b) used as fuel in an electricity generating unit (D),

- a gas (12) mainly comprising hydrogen. This gas (12) can be used during the treatment (C) to cut the chains of the liquid hydrocarbon compounds (4) from the Fischer-Tropsch process,
- a gas (13) comprising hydrogen and carbon monoxide with a recovery rate of at least 60% and methane, which is recycled to the Fischer-Tropsch reactor (B), and
- a gas (14) comprising CO<sub>2</sub> with a carbon dioxide recovery rate of at least 40%, which is introduced into the synthesis gas preparation unit (A).

7) Please insert the following paragraph at page 10, line 25:

It will be understood that many additional changes in the details, materials, steps and arrangement of parts, which have been herein described in order to explain the nature of the invention, may be made by those skilled in the art within the principle and scope of the invention as expressed in the appended claims. Thus, the present invention is not intended to be limited to the specific embodiments in the examples given above.

8) Please replace the subtitle at page 11, line 1, with the following text:

**CLAIMS** What is claimed is: